



ES COMPONENTS
Innovation Not Duplication

Bare Die
SMT Distribution

ISO9001:2008

AS9120:2009

ITAR Registered

Class K Hybrid Components Portfolio

Element Evaluation per Mil Prf 38534 or Mil Prf 19500

Active Devices:

Semicoa: JANKC and JANKCR (Rad Hard) bipolar transistors

Sensitron: Power diodes: Rectifiers, Schottky's, Power Zeners, TVS

- Microsemi class K diode die alternatives
- Custom die sizes: Square, hex, reverse polarity, etc

Vishay Diodes:

- Small signal zeners (Microsemi alternatives)
- Small signal switching diodes: 1N4148, 4150, 5711, 6140, 6142

Siliconix Mosfets and JFET's

Micrel FET drivers and LDO's

Passive Components:

Vishay Vitramon: Ceramic Chip Capacitors

- Mil Prf 123 MLCC's (PME), including 0603 and 0402 cap sizes
 - Full line qualification due 2Q14

Vishay EFI and Sfernice: Thin Film Resistor Chips

RF / Microwave Components:

Skyworks: (formerly Alpha)

- **ACTIVES:** PIN Diodes, Schottkys, Varactors, Limiters
- **PASSIVES:** Attenuators, Switches, Silicon Chip Caps (MOSCAPs)

Vishay Vitramon: ATC600 and ATC square cap alternatives

Semiconductor inventory for "Obsolescence" support:

ESC is the stocking facility for the old "Elmo Semiconductor" wafer and die inventory

- Over 38,000 part numbers in stock
- Valued at \$20MM at original purchase price
- Most line items have original C of C's and all items pass "chain of custody" investigations

Vendors include a who's who in the Semiconductor Industry in the 1980's:

- AMD, Allegro, Analog Devices, Burr-Brown, CDI, Microsemi, Harris, Interfet, Intersil, Motorola, National, NES, PMI, RCA, Signetics, Teledyne Semi, Texas Instruments, others

ESC can sell the bare die, or we can quote turn-key assembly and screening to any SCD